

Status of Notifications to Agricultural Operations for Fiscal Year 2022



August 2022

Office of the Assistant Secretary of Defense
for Energy, Installations, and Environment

(b) (4)

TABLE OF CONTENTS

TABLE OF CONTENTS	i
APPENDIX.....	i
I. INTRODUCTION.....	1
II. BACKGROUND.....	1
III. STATUS OF AGRICULTURAL OPERATION NOTIFICATIONS	1
IV. CONCLUSION.....	2

APPENDIX

Status of Agricultural Operation Notifications

I. INTRODUCTION

Section 335(d) of the William M. Mac Thornberry National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2021 (Public Law 116-283), requests the Secretary of Defense to provide an annual report on the Department of Defense's (DoD's) status of providing notifications to agricultural operations located within one mile down gradient of a Military Installation or National Guard facility where a "covered" per- and polyfluoroalkyl substances (PFAS)¹ (1) has been detected in groundwater on base; (2) has been hydrologically linked to a local agricultural or drinking water source; and (3) is known or suspected to be the result of a PFAS release at a Military Installation or National Guard facility located in the United States. This report covers the notifications sent to agricultural operations from April 1, 2021, through March 31, 2022.

II. BACKGROUND

PFAS is a national issue that requires national solutions. Under section 335(a) of the NDAA for FY 2021, DoD was required to provide one-time notifications to certain agricultural operations that alerted them to DoD PFAS sampling information. DoD worked in consultation with the U.S. Department of Agriculture to obtain names and addresses of agricultural operations near Military Installations or National Guard facilities. DoD then reviewed its data from the installations where we are conducting PFAS cleanup assessments to determine if on-installation groundwater could be hydrologically connected to down gradient agricultural operations within one mile of the installation. DoD was required to provide updated test results to agricultural operations that received a notice under section 335(a) and to submit an annual report to Congress under section 335(d). In order to increase transparency of data sharing, DoD extended the notification requirements in section 335(a), to groundwater sampling performed after section 335 the FY 2021 NDAA was enacted. See DoD's memorandum on *Agricultural Operations Notifications and Reporting Requirement* dated November 5, 2021.

III. STATUS OF AGRICULTURAL OPERATIONS NOTIFICATIONS

The Department notified agricultural operations consistent with the requirement in section 335 of the NDAA for FY 2021.

During the period of April 1, 2021, through March 31, 2022, the DoD Components have sent notifications to 1,442 identified agricultural operations pursuant to section 335 of the NDAA for FY 2021. The appendix provides the number and approximate locations of agricultural operations notified; the associated Military Installation or National Guard facility; and the covered PFAS and levels detected in groundwater on base. Since March 1, 2021, the Department has sent notifications to a total of 3,585 agricultural operations. The DoD Components also sent pertinent updated information to 155 previously notified agricultural operations in accordance with section 335(c). Providing these agricultural notifications does not

¹ "Covered PFAS" is defined as perfluorooctane sulfonate (PFOS) that has been detected in groundwater above 70 parts per trillion (ppt), individually or in combination with perfluorooctanoic acid (PFOA); and/or PFOA that has been detected in groundwater above 70 ppt, individually or in combination with PFOS; and/or perfluorobutanesulfonic acid that has been detected in groundwater above 40 parts per billion.

necessarily mean that PFAS is in the groundwater at the agricultural location or that cleanup is required.

IV. CONCLUSION

The DoD Components will continue to prioritize this effort and send additional notifications as agricultural operations are identified pursuant to section 335 of the NDAA for FY 2021.

Appendix: Status of Agricultural Operational Notifications

State	Installation	City	DoD Component	Installation Type	Number of Notifications Sent between April 1, 2021 and March 31, 2022 ²	PFOS Range Detected (ppt)	PFOA Range Detected (ppt)	PFBS Range Detected (ppb)
Alabama	(b) (6)				4	17 - 260	13 - 1,200	-
Arizona					24	70 - 2,440	70 - 322	-
Arizona					22	93.4-710	72.9-105	-
California					41	83-3,100	72-7,100	-
California					21	70 - 19,600	70 - 961	-
California					41	76-60,000	75-9,400	-
California					1	0.96 - 44	70 - 580	-
Colorado					23	300-90,000	190-190,000	-
Delaware					2	326 - 12,000	42.1 - 3,950	-
Florida					8	0.14 - 106,114	0.19 - 6,742.5	0.00008 - 0.00275
Florida					23	2,100-21,000	640-1,700	83 - 240
Georgia					24	230-300,000	94-54,000	290
Georgia					1	75-250,000	72-52,000	-
Georgia					1	29 - 110,000	30 - 3,900	-
Idaho					37	70-141	72-140	-
Indiana					8	53 - 110	16 - 44	-
Indiana					58	920	190	-
Indiana					41	70.8 - 114,000	84.5 - 18,000	-
Kansas					3	27.7 - 2,930	ND - 8,100	-
Louisiana					41	4.9 - 7,150,000	4.01 - 3,820,000	0.00995 - 1,530
Maine					1	98 - 11,700	96 - 2,420	-
Maine					29	76 - 8,770	115 - 811	-
Massachusetts					8	290-140,000	160-270,000	-
Michigan					7	87.8-728	70.9 to 57,900	-
Mississippi					47	0.66 J - 125,000	ND - 22,608.77	ND - 2.717
Mississippi					3	22 - 440	21 - 88	-
Mississippi					2	26 - 67,000	44 - 4,100	-
Missouri					5	4.9 to 12,800	13.1 to 3,460	-
Missouri					2	8.3 - 34,000	2.5 - 5,100	-
Missouri					21	400-28,000	160-58,000	-
New Mexico					11	85-25,000	71-2,800	-
New York					15	149 - 60,700	74.5 - 1,100	-
New York					12	81-1,200,000	170-110,000	-
New York					2	70.9 - 615,000	74.5 - 981,000	-
North Carolina					65	72-300,000	75-100,000	-
North Dakota					21	96-4,000	87-1,400	-
North Dakota					75	86 - 35,000	88 - 40,000	-
North Dakota					77	330-440,000	150-20,000	48-49
Ohio					8	11 - 640	0.55 - 2,200	-
Ohio					33	135 - 14,400	114 - 45,800	-
Ohio					22	83 - 2,400	17 - 4,800	-
Oklahoma					1	160 - 44,000	45 - 4,000	-
Oklahoma					39	1,100-290,000	160-40,000	-
Oklahoma					6	61 - 10,000	9.9 - 3,300	-
South Carolina					10	38 - 9,500	2.1 - 550	-
South Carolina					108	71-30,000	76-13,000	-
South Dakota					56	240-150,000	580-22,000	-
South Dakota					1	5.5 - 370,000	3.7 - 21,100	-
Tennessee					4	160 - 4,300	9 - 630	-
Texas					8	434 to 2,660	23.3 to 2,260	-
Texas					73	106-28,200	87.6-628	0.106-0.986
Texas					134	74-680,000	83-130,000	81

Appendix: Status of Agricultural Operational Notifications

State	Installation	City	DoD Component	Installation Type	Number of Notifications Sent between April 1, 2021 and March 31, 2022 ²	PFOS Range Detected (ppt)	PFOA Range Detected (ppt)	PFBS Range Detected (ppb)
Texas	(b) (6)				20	70 - 1,820	70 - 5,460	-
Virginia					63	ND - 49,300	ND - 10,110.11	ND - 2.79
Virginia					1	59 - 1,680	11.3 - 2,270	-
Washington					23	ND - 46,800	ND - 58,500	ND - 2.09
Washington					3	ND - 19.39	ND - 177.77	ND - 0.063
Wyoming					2	350-64,000	160-72,000	-
Total Notifications Sent:					1442			

ND - Non-detect

J - The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit.

Footnotes:

- 1: The agricultural operations notified are located within one mile down gradient of a Military Installation or National Guard facility where covered per- and polyfluoroalkyl substances (PFAS) (1) has been detected in groundwater on base; (2) has been hydrologically linked to a local agricultural or drinking water source; and (3) is known or suspected to be the result of a PFAS release at a Military Installation or National Guard facility located in the United States.
- 2: Section 335 of the NDAA for FY 2021 defines "covered PFAS" as perfluorooctane sulfonate (PFOS) that has been detected in groundwater above 70 parts per trillion (ppt), individually or in combination with perfluorooctanoic acid (PFOA); and/or PFOA that has been detected in groundwater above 70 ppt, individually or in combination with PFOS; and/or perfluorobutanesulfonic acid (PFBS) that has been detected in groundwater above 40 parts per billion.